

Dan Inouye

U.S. SENATOR FROM HAWAII



CONGRESS PASSES BILL WITH NEARLY HALF-BILLION DOLLARS FOR DEFENSE-RELATED INITIATIVES IN HAWAII

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FOR IMMEDIATE RELEASE

WASHINGTON — U.S. Senator Daniel K. Inouye announced tonight that a bill with nearly \$496.7 million in defense-related spending for Hawaii has been approved by Congress. The bill will now be sent to the White House for the President's signature.

"When combined with the funds earmarked for military construction that are in a measure before the Senate, Hawaii stands to receive more than \$865 million in defense dollars, which do not include funds for day-to-day operations or payroll," said Senator Inouye.

As the Ranking Member of the Senate Defense Appropriations Subcommittee, Senator Inouye played a key role in securing passage of the \$417 billion Department of Defense Appropriations Bill for Fiscal Year 2005, which contained the Hawaii initiatives.

The legislation cleared its final congressional hurdles this evening when the Senate passed the measure by a vote of 96 to 0, and the House gave its approval by a vote of 410 to 12 a little more than an hour after Senate passage.

"This is a good bill. It provides what the Department of Defense needs for the coming fiscal year, and it supports the men and women in uniform," Senator Inouye said.

“The Hawaii initiatives illustrate the state’s importance in maintaining our nation’s strong defensive posture. It is the soldiers, Marines, airmen and sailors stationed in Hawaii who will be among the first to respond to threats at home or in the Asia-Pacific region. It is the research and work in Hawaii that supports space surveillance, missile testing, and target tracking. It is in Hawaii that research is under way to develop ways to prevent and treat combat-related injuries, and to better protect our troops by utilizing cutting-edge technology,” Senator Inouye added.

The following are some of the key initiatives for Hawaii in the Senate Defense Appropriations Bill:

U.S. Army, Pacific Command (USARPAC) C4I and PACMERS *\$34.5 million*
(Funding shared by units throughout the Pacific.)

These funds would be used to support USARPAC’s command, control, communications, computer, and intelligence system, known as C4I. This system is crucial to USARPAC’s ability to manage information. Funds would also be used to continue a demonstration project on the Big Island to test communications interoperability of County, State, and federal agencies to combat terrorists and criminals.

Pacific Missile Range Facility (PMRF) – Upgrades and Equipment *\$26.875 million*
PMRF is the world’s largest instrumented, multi-environment range capable of supporting surface, subsurface, air, and space operations. It has an instrumented underwater range of 1,000 square miles, and controlled airspace of more than 42,000 square miles, making PMRF one of the world’s best facilities for supporting operations that vary from small, single-unit exercises to large, multiple-unit battle group scenarios.

Maui High Performance Computing Center Technology Upgrade *\$15.5 million*
Funds would be used to support operations and technology upgrades at MHPCC. The MHPCC is one of the world’s largest IBM supercomputer installations, and it provides access to parallel computing hardware, advanced software tools and applications, high bandwidth communications, and high-performance storage technologies.

Clinical Cancer Care Partnership *\$8.5 million*
These funds would be used to establish a new collaborative clinical alliance between Tripler Army Medical center and Cancer Research Center of Hawaii (CRCH) to enhance organizational capabilities in the possible areas of clinical care, risk reduction, and informatics, and in turn will support the CRCH’s expansion plans.

Military Aviation Museum of the Pacific on Ford Island *\$8.5 million*
These funds would support the telling of the history of military aviation in the Pacific.

Extra Corporeal Membrane Oxygenation at Tripler *\$6 million*
This new project would establish a state of the art lifesaving technique often used on newborns, young children, and, at times, adults whose heart or lungs are failing, as a partnership of Tripler, Kapiolani Medical Center for Women and Children and Kaiser Permanente. Hawaii is presently without this capability, requiring medevacs of patients to mainland facilities.

Other Hawaii-related projects in the defense appropriations measure include:

OAHU/STATEWIDE

Corrosion Prevention and Control Program
Army *\$6.8 million*
Marine Corps *\$3.4 million*

This program seeks to limit the corrosion of equipment and vehicles that operate under harsh environmental conditions.

Marine Forces Pacific *\$8.5 million*
These additional funds would be used to alleviate the strain on base operation resources.

Standoff Sensor for Radionuclide Identification *\$8 million*
This new research initiative at the University of Hawaii would begin to develop sensors capable of remotely sensing nuclear, chemical, and biological specimens or evidence of their existence.

Littoral Airborne Sensor/Hyperspectral (LASH)
Anti-Submarine Warfare *\$4.3 million*
Mine Countermeasures *\$3.4 million*
Funding would be used to continue research on LASH technology to provide real-time surveillance and detection of submarines and smaller objects, such as mines, in relatively shallow waters, and on land. This technology, mounted on the bottom of aircraft, is an important part of the military's anti-submarine warfare and mine countermeasures programs.

Theater Undersea Warfare Initiative (TUSW) *\$7.6 million*
This funding is an on-going effort of a Kailua-based project to improve submarine

detection capabilities. The project relies on the Maui High Performance Computing Center (MHPCC).

Center of Excellence for Research in Ocean Studies (CEROS) **\$7 million**
The appropriation would be used to foster technology development and commercial use of ocean and marine research through CEROS, a Big Island-based project that seeks to advance innovative concepts and new approaches to technology for the U.S. Department of Defense.

Pacific Air Force (PACAF) Server Consolidation **\$6.9 million**
This project would accelerate PACAF's server consolidation program.

Agile Coalition Environment (ACE) **\$6.4 million**
Today's military coalitions are constantly changing, so a centrally managed network that is reconfigurable and secure is essential to ensure that only the intended audience receives all transmitted data. ACE allows coalition members to communicate securely during scheduled deployments and during times of crisis.

Defense Dependents Education Support and School Repairs **\$5.5 million**
The appropriation would be used to support school construction and additional resources to aid Hawaii public schools with large numbers of military dependents.

Advanced Lifting Body Ship Research **\$5 million**
The Navy is examining advanced hull form technologies to incorporate into its next generation of ships, which need to be more efficient, stable, faster, and less costly. The appropriation would be used to support technology to achieve these goals.

Hawaii Energy and Environmental Technology (HEET) **\$5 million**
HEET is an ongoing University of Hawaii program that supports cutting edge research and testing of fuel cells at its facility in downtown Honolulu.

Hawaii Technology Development Venture **\$4.2 million**
Funding for this program supports a regional center for the commercialization of defense and homeland security technologies, and provides an opportunity for small companies in Hawaii to develop advanced technologies for national defense.

Photonics Prototyping Facility **\$4.2 million**
This funding would support the continued development of a photonics prototyping facility for research and development on highly integrated photonics circuits for military applications.

Unexploded Ordnance Detection

Using Airborne Ground Penetrating Radar

\$4 million

This funding supports research by the University of Hawaii and others on a ground penetrating radar that can locate buried objects, such as ordnance, from a remotely piloted aircraft. The Big Island would serve as a local testing ground.

High-Performance Metal Fiber Brushes

\$3.5 million

This funding will continue to accelerate and expand the installation of high-performance metal fiber brushes in Navy submarines. These brushes enhance performance and reduce maintenance costs of a variety of Navy motors and generators.

Airborne Reconnaissance Sensors

\$3.4 million

Hyperspectral imaging sensors provide the capability to detect and identify targets not discernible with conventional sensors, including infrared. The funds would allow the Naval Research Laboratory to continue its efforts to extend hyperspectral technology advancements to improve the Navy's warfare target detection, discrimination, and identification.

Consolidated Undersea Situational Awareness System (CUSAS)

\$3.4 million

CUSAS is designed to provide superior knowledge to naval forces through the use of advanced, interactive software that creates a comprehensive operational picture and real-time tactical information for the warfighter.

Hickam Air Force Base Alternative Fuel Vehicles Program

\$3.4 million

The funding would continue Hickam's participation to test alternative-fuel vehicles, including those powered by fuel cells or electricity.

Hyperspectral Data Fusion

\$3.4 million

This funding would continue the development of a real-time, dedicated processor for linking data from multiple sensors, and would provide the Navy with a more accurate targeting and intelligence-gathering capability.

Plasma Arc/Waste to Energy Production

\$3.4 million

This research funding would expand the plasma arc technology to dispose of solid waste, and generate energy. If successful, the program would lessen the pressure on landfills that are at or near capacity.

Wave Power Demonstration Project

\$3.4 million

The Navy is developing new technology that shows great promise for low-cost, easily deployed, and readily available electric power generation at ocean sites. This technology is based upon converting the energy of ocean waves to electricity.

Army Conservation and Ecosystem Management

\$3 million

The appropriation supports environmental mitigation and remediation, with a focus on Pohakuloa and Makua Valley. Of this amount, \$1 million shall go to the City and County of Honolulu to support environmental and maintenance requirements of mutual interest.

SEE RESCUE Distress Streamer

\$3 million

The funds would be used to purchase orange polyethylene streamers. The streamers would be deployed by military personnel lost at sea or in distress, making it easier for them to be located by search and rescue teams.

Proton Exchange Membrane Fuel Cell Trial

\$2.8 million

This funding would continue a field demonstration at Navy Region Hawaii of stationary proton membrane fuel cells incorporating a new membrane technology.

Hawaii National Guard Counterdrug Program

\$2.7 million

The funds for this ongoing program would be used to enhance drug interdiction activities at Hawaii's ports of entry, support anti-drug programs targeting youths, and eradicate marijuana.

Flood Mitigation at Lualualei

\$2.6 million

These funds will support flood mitigation efforts at Lualualei, in a matching partnership with the State of Hawaii, and the City and County of Honolulu.

Integrated Aircraft Health Management

\$2.6 million

Funds would continue a partnership between Boeing and the University of Hawaii to improve the military's ability to maintain aircraft.

Live Instrumented Training

\$2.6 million

This funding would enhance live training exercises for the U.S. Army Pacific Command.

Pacific-Theater Data Fusion Testbed

\$2.5 million

This funding would support research and development for the Navy and Missile Defense Agency for advanced discrimination and tracking capabilities for theater and national missile defense systems.

Regional Economic Transition Adjustments (RETA)

\$2.5 million

Funding would be for Phase II of RETA, which would support the establishment or expansion of resource-based businesses to address direct military needs and those of adjacent communities engaged in agriculture or resource management.

Rockfall Mitigation below Tripler Army Medical Center

\$2.4 million

These funds will support mitigation efforts to help guard against future rockslides

into Moanalua homes. Of this amount, \$500,000 will directly support the City and County of Honolulu's efforts to protect important infrastructure to both Tripler and the surrounding community.

Thin Layer Chromatography *\$2.1 million*

This program is for developing field test kits that use thin-layer chromatography technology to detect whether unexploded ordnance is polluting the environment.

Interrogator for High-Speed Retro-Reflector Communication *\$2 million*

These funds would support the development of a prototype system for high-speed data links to rapidly download high resolution imagery.

Sea Test for Towed Acoustic Arrays *\$2 million*

Navy submarines and ships cannot adequately track targets when they are turning. This funding would accelerate the development of software to address this problem, and conduct a test at Pacific Missile Range Facility.

Military Rapid Response Command Information System *\$1.7 million*

This new initiative would develop a testbed for the integration of naval aviation with advanced command and control software and data analysis tools.

Multi-Target-Tracking Optical Sensor Array Technology (MOST) *\$1.7 million*

Critical to the success of missile defense is the successful identification, targeting and engagement of decoys, and countermeasures. Research for MOST would address this challenge using an advanced sensor array.

Pacific Rim Corrosion Research Program *\$1.7 million*

Funds would be used for ongoing research at the University of Hawaii to find ways to limit corrosion on Army equipment under different climatic conditions.

Real Time Security Program *\$1.7 million*

This appropriation would allow the Hawaii National Guard to strengthen the security and surveillance systems of National Guard and other military facilities and equipment.

ADPICAS *\$1.5 million*

This funding would continue support of a University of Hawaii project, Adaptive Damping and Positioning Using Intelligent Composite Active Structures (ADPICAS). The research is developing novel approaches for enhanced performance and reliability of spacecraft.

Autonomous Unmanned Surface Vessel *\$1.5 million*

Funding is provided for testing the autonomous unmanned surface vessel under development for use as a cost-effective, high endurance, intelligence, surveillance, and reconnaissance system.

Pearl Harbor Naval Shipyard Apprenticeship Program *\$1.5 million*

Additional funds were provided for this program to train 150 apprentices in the Fiscal Year 2005 class. This is 25 more apprentices than last year's class.

Semi-Autonomous Underwater Vehicle (SAUVIM) *\$1.3 million*

Funds would go to the University of Hawaii to continue research on an underwater robotic vehicle for the Navy.

Marine Mammal Hearing Research *\$1.1 million*

This funding will help create a national research facility for the study of dolphin and whale hearing and acoustics.

Articulated Stable Ocean Platform *\$1 million*

This program would leverage previous lifting-body research and development to develop, build, and demonstrate a stable, rapidly deployable pilot floating platform.

Brown Tree Snake Control *\$1 million*

The funding would be used to continue the military's efforts to prevent Brown Tree Snakes from leaving Guam, where they are prevalent and responsible for destroying much of Guam's unique ecosystem, on military transports flying to Hawaii. The program is key to keeping Brown Tree Snakes out of Hawaii.

MAUI

Maui Space Surveillance System (MSSS) *\$33.9 million*

MSSS is a state of the art electro-optical facility that combines operational satellite tracking facilities with research and development activities. It houses the U.S. Department of Defense's largest telescope, the 3.67-meter Advanced Electro Optical System, and several other telescopes.

PanSTARRS *\$10 million*

The appropriation would be used to develop large aperture telescopes with different sensors. The Maui Space Surveillance System, the University of Hawaii Institute of Astronomy, and the Maui High Performance Computing Center are cooperating on this initiative.

High Accuracy Network Determination System (HANDS) *\$8.5 million*

Funding would continue work on HANDS, which uses relatively low-cost, innovative telescopes to determine orbital information of satellites. HANDS provides greater accuracy in tracking space data through a network of telescopes

that would allow the Air Force to better perform its Space Situational Awareness mission.

Pacific-Based Joint Information Technology Center *\$8.5 million*

Funding would be used to create and manage databases, such as the location of military and federal medical supplies worldwide.

Applications of LIDAR to Vehicles with Analysis (ALVA) *\$8 million*

The capability to perform critical Air Force missions can be significantly enhanced through the application of technology developed under ALVA. Applications include long-range airborne battlefield surveillance.

Pacific Disaster Center *\$7 million*

The Center, in operation since February 1996, is a federal information processing facility that supports emergency management activities in the Pacific Ocean and Indian Ocean regions.

Unmanned Systems Testbed Project/Pathfinder Demo *\$4.3 million*

This project at the Pacific Missile Range Facility (PMRF) on Kauai and at the MHPCC on Maui focuses on the definition, design, and early implementation of a facility for tests and evaluation, training, and exercises involving unmanned aerial vehicles.

Advanced Radio Frequency Technology Development *\$4.25 million*

Funding would continue this program in Kihei to conduct space laser communications and sensors research for the national Ballistic Missile Defense Program.

Project Albert *\$3.4 million*

This ongoing project applies chaos theory to complex, combat situations by using computer models. The Maui High Performance Computing Center is a key partner in the research program.

Computational Proteomics *\$2.6 million*

Computational proteomics is an interdisciplinary field combining chemistry, molecular biology, mathematics, computer sciences, and information technology to analyze the structure and function of proteins. This funding would enable the MHPCC, the University of Hawaii Medical School, the Army's Medical Telemedicine and Advanced Technology Center, and Tripler Army Medical Center to continue a computational proteomics program for research on biomedical defenses.

Multi-Frame Blind Deconvolution (MFBD) ***\$2.55 million***

The goal of this program is to achieve near real-time analysis using data fusion algorithms and image processing to reduce the size of data to more accurately track and identify objects that are hundreds of kilometers away.

Porous Silicon ***\$2.55 million***

Funding for this program would further the development of a biosensor that can rapidly detect and identify specific chemical and biological agents in the field without having to bring samples to a laboratory.

Project Endeavor ***\$1.7 million***

Funding would support a continuing ship modeling program with the Maui High Performance Computing Center, the University of Hawaii, and academic partners. One of the areas of exploration is developing new and more efficient hull forms.

Haleakala Laser Communications Testbed ***\$1 million***

Funding for this project would support a laser communications system connecting the mountaintops of Mauna Kea and Haleakala.

KAUAI

Pacific Missile Range Facility (PMRF)

Force Protection Laboratory ***\$8 million***

The lab would serve as an incubator for force protection and base security technologies and will examine such technologies as active access technologies, rapid response command information systems, common situation displays, ports and cargo secure operations, maritime security and force protection, and advanced communication terminals.

Range Mission Tool, and Sensor Data Fusion and Communications ***\$5.1 million***

These funding initiatives would continue programs to support PMRF, and its ability to monitor and display the ever-increasing volume of data collected during tests and exercises at the range.

Maritime Synthetic Range ***\$4.3 million***

This continuing program simulates targets for tracking and surveillance tests.

Optical Sensors ***\$4.25 million***

This funding would support PMRF's missile defense activities with sensors that can better collect data from missile launches and intercept tests.

Kauai Test Facility ***\$4 million***

The activities of the Kauai Test Facility, operated by Sandia National Laboratories

and owned by the U.S. Department of Energy, include launches with realistic trajectories that provide a target for sensors and interceptors that are being tested.

Flood Control at PMRF

\$3 million

Advanced Integrated Radar Electronics and Photonics (AIREP)

\$11.6 million

This is a follow-up program to the UHF Electronically Scanned Array radar for the Navy's Advanced Hawkeye E-2C, an all-weather, carrier-based tactical airborne warning and control system aircraft used by carrier battle groups. The project demonstration is located at the Mountaintop Test Bed on Makaha Ridge, Kauai, at PMRF.

Common Affordable Radar Processor (CARP)

\$7.7 million

This program would provide an affordable, high-performance processing capability for Navy radar systems using commercial technology. Development, demonstration, and testing would be done at the Pacific Missile Range Facility.

Digitization of Technical and Operational Manuals

\$6.4 million

This funding would be shared among the Native American and Native Hawaiian corporations set up to support the Native American Document Conversion Program for the digitization of manuals for the military. The first digitizing center is in Anahola, Kauai, and the second center is scheduled to open shortly in Waimanalo, Oahu.

Mobile Modular Command Center (M2C2)

\$6 million

M2C2 is a follow-up to Tactical Component Network, used by land and naval forces for improved command and control.

Network Application Integration Facility (NAIF)

\$6 million

NAIF is a demonstration and development hub for the global Tactical Component Network (TCN) that is being deployed to multiple Defense Department platforms and organizations to improve the military's situational awareness. Funding would support NAIF, and its demonstration of the global TCN concept.

Network Centric Warfare Testbed

\$5.1 million

The funding would be used on Makaha Ridge at PMRF to support a testbed for ground-based exercises for the Navy's Advanced Hawkeye E-2C aircraft.

Strategic Materials

\$3.4 million

This is an ongoing project to develop technologies for the manufacture of strategic materials, specifically low-cost, corrosive-resistant ceramics and ceramic matrix composite materials.

Hawaii Undersea Vehicle Test and Training Environment **\$2.6 million**
The objective of this program is to develop an advanced test and training capability in the Hawaii area for the Navy's Advanced SEAL Delivery System, a small submarine used by Navy SEALs, and future undersea vehicles.

Silicon Thick Film Mirror Coatings **\$2.55 million**
Funds would be used to continue research and manufacturing of hard, corrosion-resistant optical coatings for mirrors with space, missile defense, and commercial applications.

Chitosan Bandage Component **\$2.1 million**
This project would establish a U.S.-made chitosan bandage for the U.S. military.

Maritime Directed Energy Test and Evaluation Center (MDETEC) **\$2 million**
Funding would initiate a Department of Defense requirements study for the design and development of MDETEC at PMRF for test and evaluation of high-energy lasers in a maritime environment to meet Navy requirements.

Pacific Ballistic Missile Technology Program **\$1.7 million**
This program would enhance the development, integration, and demonstration of advanced technologies for ballistic missiles and upgrades to range safety instrumentation.

HEALTH

Tripler Army Medical Center

AKAMAI II, Telemedicine Initiative, **\$23 million**
AKAMAI II supports the development and deployment of telemedicine technology to improve access and the quality of care to military families, and federal beneficiaries. It also strengthens partnerships with community health providers and support institutions, technology companies, and the University of Hawaii to create a critical mass of cutting edge innovations and capabilities. The funds would be allocated as follows:

- \$1.8 million – \$900,000 each to continue targeted services utilizing technology innovation to public schools with large numbers of military dependents with special needs, and to address pressing pediatric concerns utilizing graduate education, training, and technology.
- \$3.6 million - \$900,000 each to continue Defense Department -Veterans Administration interoperability initiatives, to continue bioinformatics/genomics research in concert with the University of

Hawaii and the Maui High Performance Computing Center; and to improve healthcare informatic and patient safety programs, and to continue the technology transfer of new federal innovations into the broader government and private sectors.

- \$11.2 million - \$2.8 million each for the continued development in HyperSpectral Diagnostic Imaging to detect cervical cancer, including the funding of Phase III Food and Drug Administration clinical trials; to continue the refinement of the Personal Intelligent Medical Assistant to improve patient care through the non-invasive measurement of heart and respiration rates; to continue the development of drugs to treat anthrax and botulism; and to support bioengineering work involving human corneal transplants.
- \$3 million - \$1.65 million to support the work of the Federal Health Care Partnership to improve services through electronic communications and new technologies; and \$1.35 million to continue graduate education programs that place post-graduate social work and psychology fellows in underserved rural areas.
- \$1.8 million to continue the development of simulation and imaging systems.
- \$900,000 to support the development of a cord blood repository at the Hawaii Blood Bank in partnership with Tripler, to allow for both treatment and research to benefit military and non-federal beneficiaries. Hawaii's cord blood is presently shipped and held in the Pacific Northwest.
- \$450,000 to support research and training activities of the University of Hawaii, the U.S. Pacific Command, and the Armed Forces Research Institute in the area of HIV/AIDS prevention in the Asia-Pacific region.
- \$250,000 to deploy the Patient Medical Assistant for testing and demonstration to improve patient care by allowing for the ongoing, remote monitoring of key health condition indicators.

Automated Clinical Practice Guidelines

\$5.5 million

The funds would be for Tripler's partnership with the Henry Ford Clinic program to develop Automated Clinical Practice Guidelines that assist practitioners and patients in choosing appropriate health care strategies for the prevention, diagnosis, treatment, and management of selected conditions.

*Center for Excellence in Disaster Management
and Humanitarian Assistance*

\$4.3 million

Through legislation sponsored by Senator Inouye, the Center, also called COE, was established in 1994, and is operated as a partnership involving the U.S. Pacific Command, the Pacific Regional Medical Command, the Centers for Disease Control and Prevention, and the University of Hawaii. Funding provides education, training, and research in civilian-military operations, particularly efforts that require international disaster management, humanitarian assistance, and interagency coordination.

Pacific Island Health Care Referral

\$4.25 million

Appropriation would continue the Pacific Island Health Care initiative, utilizing telemedicine, and, as needed, transportation and medical care to the medically underserved U.S.-associated Pacific islands. The program provides U.S. military medical personnel with valuable training.

Tripler eICU Remote Critical Care

\$4 million

Funds would continue a Remote Critical Care Command Center established at Tripler that provides around the clock care and monitoring of patients across large geographic regions, and ensures immediate access to qualified medical specialists.

Tissue Development on Elastin Biomatrixes

\$4.8 million

The project is for developing techniques to grow replacement blood and tissue for use after battlefield injuries.

HSDI

\$4.3 million

The program involves the development of equipment for the detection and rapid remote analysis of intestine, lung, and colon cancer.